

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A device adapted for the magnetic attraction of particles in a cell culture comprising a cell culture vessel adapted for the culture of human cells, and a magnet or a magnetizable element, wherein said magnet or magnetizable element is positioned within a wall of said culture vessel or external to said culture vessel so as to allow a magnetic field emanating therefrom to pass through said culture vessel.

2. (Currently Amended) The device of claim 1, wherein said magnetie or magnetizable element is an electromagnet.

3. (Canceled)

4. (Original) The device of claim 1, wherein said human cells are lymphocytes.

5.-6. (Canceled)

7. (Currently Amended) The device of claim 1, wherein said culture vessel is a flask or a bag.

8. (Currently Amended) A method for inducing aggregation of cells or cell surface markers comprising:

(a) providing a population of cells having a target cell surface molecule; and

(b) providing a device, wherein said device is adapted for the magnetic attraction of particles in a cell culture and wherein said device comprises

a cell culture vessel adapted for the culture of human cells, and
a magnet or a magnetizable element, wherein said magnet or magnetizable
element is positioned so as to allow a magnetic field emanating therefrom
to pass through said culture vessel; and

~~of claim 1,~~ wherein said cells are contained within said culture vessel; said culture vessel contains a solid surface having attached thereto a ligand for at least one target cell surface molecule; and

(c) applying a magnetic field through said magnet or magnetizable element of said device;

thereby inducing aggregation of said cells or cell surface markers.

9. (Original) The method of claim 8, wherein said aggregation induces target cell signal transduction.

10. (Original) The method of claim 8, wherein said solid surface is selected from the group consisting of a plate, a bag, a dish, a rod, a pellet, a fiber, a microsphere, and a bead.

11. (Original) The method of claim 10, wherein said solid surface is a bead or a microsphere.

12. (Original) The method of claim 10, wherein said solid surface is paramagnetic.

13. (Original) The method of claim 8, wherein said cell population comprises lymphocytes.

14. (Original) The method of claim 8, wherein said ligand is selected from the group consisting of an antibody, a natural ligand, and a synthetic ligand.

15. (Original) The method of claim 8, wherein said ligand comprises an antibody, a peptide, a polypeptide, a growth factor, a cytokine, or a chemokine.

16. (Original) The method of claim 8, wherein said receptor binding leads to downregulation or suppression of a cellular event.

17. (Original) The method of claim 8, wherein said receptor binding leads to upregulation or activation of a cellular event.

18. (New) A Device adapted for the magnetic attraction of particles in a cell culture comprising a cell culture vessel adapted for the culture of human cells, and a magnet or a magnetizable element, wherein said magnet or magnetizable element is positioned so as to allow a magnetic field emanating therefrom to pass through said culture vessel, wherein said magnet or magnetizable element is not positioned within the body of the vessel.